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## WHAT IS CLAIMED IS:

1. A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:

a plurality of polygon ground cells, periodically, compactly, and complementarily distributed on a ground surface, wherein a slot exists between the two adjacent ground cells.

- 2. The ground shield structure of claim 1, further comprising at least an interconnection member connecting two of the adjacent ground cells.
- 3. The ground shield structure of claim 1, wherein the ground cells have an identical cross-sectional profile.
- 4. The ground shield structure of claim 1, wherein the ground cells have different shape of cross-sectional profiles.
- 5. The ground shield structure of claim 1, wherein the ground surface includes a planar surface.
- 6. The ground shield structure of claim 1, wherein the ground surface includes a curved surface.
- 7. A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:

a ground surface, comprising a plurality of slots in a polygon shape, the slots are distributed in the ground surface by a periodic, compact and complementary arrangement.

8. The ground shield structure of claim 7, wherein the slots have an identical cross-sectional profile.

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- 9. The ground shield structure of claim 7, wherein the slots have different cross-sectional profiles.
- 10. The ground shield structure of claim 7, wherein the ground surface includes a planar surface.
- 11. The ground shield structure of claim 7, wherein the ground surface includes a curved surface.
- 12. A ground shield structure, suitable for use in an electronic circuit structure, the ground shield structure at least comprising:
- a ground surface, comprising a plurality of polygon ground cells, distributed on the ground surface by a periodic, compact and complementary arrangement.
- 13. The ground shield structure of claim 12, wherein the polygon ground cells are portions of the ground surface.
- 14. The ground shield structure of claim 13, further comprising at least an interconnection member connecting two of the adjacent ground cells.
- 15. The ground shield structure of claim 12, wherein the polygon ground cells are slots of the ground surface.
- 16. The ground shield structure of claim 12, wherein the polygon ground cells have an identical cross-sectional profile.
- 17. The ground shield structure of claim 12, wherein the polygon ground cells have different cross-sectional profiles.
- 18. The ground shield structure of claim 12, wherein the ground surface includes a planar surface.

19. The ground shield structure of claim 12, wherein the ground surface includes a curved surface.